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	NEXT REVIEW DATE: 2071 21 January 1954 ACTH: 1975 REVIEWER 077100	Leter 50X1			
TO:		50X1			

The following is, in summary form, a report on the present status of this project:

I. Original Proposal

SUBJECT:

A. Work Completed:

Report on Project 1-315-E

- 1. Facilities, including a dust-free work room and storage space for the instruments, have been constructed.
 - 2. The instruments have been unpacked and stored.
- 3. A survey of literature on ultra-violet radiation and fluorescence has been made.
- 4. Jigs and tools for disassembly and reassembly of the instruments were constructed.
- 5. Test equipment and instruments have been constructed and an ultra-violet source for test use was purchased.
- 6. One optical instrument was completely disassembled and details of construction noted; a program of operations and tests has been outlined.
- 7. All of the instruments have been examined for defects or damage and each instrument tested to determine its response to ultra-violet excitation.
- 8. Several outdoor tests have been held at night to determine the correlation between tests made in the laboratory and actual field operation.
- 9. All instruments, except one used as a standard for comparison, have been completely disassembled and component parts thoroughly cleaned. This included the removal of the old phosphor from the target.

B. Work in Progress:

1. Tests are being performed on phosphors, vehicles, and solvents to determine the most suitable materials and the best method of application. A number of phosphors have been ordered. Vehicles are now at hand.

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- 2. Several designs for a suitable desiccator have been drawn and submitted to manufacturers for recommendations and bids. Bids are in negotiation.
- 3. A holding jig has been completed and other tools are under construction for focusing the targets in the instruments.

C. Work to be Done:

- 1. Targets will be coated with a new phosphor.
- 2. Instruments will be reassembled and the targets focused.
- 3. Instruments will be desiccated, new desiccators will be inserted, and the instruments will be sealed.
 - 4. Each instrument will be given a final test.
- III. The following covers the work included in the proposed extension dated 20 October 1953 and such other necessary tasks, all of which have received verbal approval of the sponsor's representatives:

A. Work Completed:

- 1. A literature and laboratory investigation on sources of ultra-violet radiation and ultra-violet filters has been made.
- 2. Numerous samples of filter materials for testing and examination have been obtained, and seven different types of filters have been purchased for field test use.
- 3. A 400-watt mercury-vapor lamp with reflector, filter, and ballast was purchased for field test purposes.
- 4. Design has been completed and bids have been obtained for the construction of lens caps.
- 5. Preliminary design has been made for the construction of a tripod holder.

B. Work in Progress:

1. Design of field test use housing for 400-watt ultra-violet source is in progress.

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Page 3				
	Bids on a rust-resi being negotiated.	stant finish and an	inner liner for t	che
C. Work	to Be Done:			
l. construction w	Complete design of ill be obtained.	tripod holder will	be made and bids f	for
2. holders.	Present case will b	e modified to recei	ve lens caps and t	ripod
3.	Lens caps and tripo	od holders will be p	rocured.	
	The optical instrumnto a single unit.	ments, lens caps, an	d tripod holders v	vill
5. be purchased a	Other more approprind tested.	iate sources of ultr	a-violet radiation	n will
6. designed and c	An ultra-violet sou onstructed.	rce with a suitable	housing will be	
7. and tested wit	The ultra-violet so h the optical instrum	ource will be mounte ments under actual o	d on a mobile unit peration condition	ns.
III. Followin	g is the estimated co	st of completing wo	rk under original	
Programme Case P	<u></u>	roquebeck were		
	Total Cost		\$22,689	
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